

The Influence of SO_2 Concentration in a Gas on Its
Rate of Absorption by Different Solvents, by
B. A. Chertkov.

RUSSIAN, per, Khim Prom, No 7, 1959, pp 586-591.

MLL RFB 2237

Sci -
Jul 63

238,170

Kasatkin, A. G., Popov, D. M., and
Aksel'rod, Yu. V.

HEAT TRANSFER THROUGH THE SIDES OF A
SPIRAL TUBE UNDER BUBBLING CONDITIONS [1961]
[5]p. 4 refs. Warren Spring Lab. Trans NT 808;
DSIR LLU M. 3030.

Order from OIS or SLA \$1.10

61-27574

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR).
1959, no. 7, p. 622-624.

DESCRIPTORS: Sulfur compounds, Oxides, Absorption,
*Bubbles, *Helixes, Copper tubing, *Heat transfer,
Ammonium radicals, Sulfites.

The heat transfer process was investigated by the
absorption of sulphur trioxide by monohydrate (98%
 H_2SO_4), producing standard oleum, and by absorption
of sulphur dioxide by a solution of ammonium sulphite-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-27574

I. Kasatkin, A. G.
II. Popov, D. M.
III. Aksel'rod, Yu. V.
IV. DSIR NT-808
V. DSIR LLU M. 3030
VI. Department of Scientific
and Industrial
Research (Gt. Brit.)

185598

Office of Technical Services

Basic Technological Characteristics of Apparata for
Conducting Radio-Chemical Processes (in Particular
for Polymerization of Ethylene) on an Industrial
Scale, by N.P. Syrkus, A. Kh. Efegor, B.I. Vaynsteyn.

RUSSIAN, per, Khim Prom, No 8, 1959, pp 647-652.
9661794.

ATIC MCL 664/v

Sci - Chem
Jun 61

155, 536

Production of Foamy Polystyrene With The Aid of
Saturated Low-Boiling Hydrocarbons, by
V.M. Neryshnevskiy, G.M. Sinayakiy.

RUSSIAN, per, Khim Prom, No 8, 1959, pp 672-674.
9661794.

ATIC NCL 664/V

Sci - Chem
Jun 61

155,527

The Hydrothermal Process for Fluorine
Removal From Natural Phosphates in a
Cyclone Furnace, by S. I. Vol'fkovich,
11 pp.

RUSSIAN, per, Min Prom, No 388, 8,
1959, pp 674-680.

ATB-83142R

Sci
Vol IV, No 9
Mar 62

187, 024

Cherepkov, I. F.
ÉCHANGE D'EXPERIENCES. ÉLASTICITÉ DES VA-
PEURS DE HNO_3 AU-DESSUS DES SOLUTIONS RÉCI-
PROQUES DES ACIDES NITRIQUES ET SULFURIQUES
(The Vapor Pressure of HNO_3 Above the Solutions of
Nitric and Sulfuric Acids). 7p. CNRS-VIII bis 624.
Order from OTS, HTC or CNRS \$1.10 TT-62-26546

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1959, no. 8, p. 708-709.

DESCRIPTORS: *Nitric acid, *Sulfuric acid, Physical
chemistry, Vapors, Elasticity.

(Chemistry-Physical, TT, v. 11, no. 9)

TT- 62-26546

- I. Cherepkov, I. F.
- II. CNRS-VIII bis 624
- III. Centre National de la Recher-
che Scientifique, Paris

Office of Technical Services
European Translations Centre

Index of ~~Material Printed in Chemical Industry~~ During
1959. UNCLASSIFIED

RUSSIAN, per, Khim Prom, No 8, 1959, pp 721-736.

*ATIC MCL-664/V

Sci - Chemistry
23 Jun 60

IC 41144

Vol'fkovich, S. I., Margolis, F. G., and Polyakov, N. N.

COMPLEX FERTILIZERS CONSISTING OF NITRIC ACID AND NATURALLY OCCURRING PHOSPHATES (COMPLEX FERTILIZERS BY DECOMPOSITION OF PHOSPHATE WITH NITRIC ACID) tr. by Bertha P. Klenova. 14 Dec 60. 16p. 43 refs. TVA-3881. Order from OTS or SLA \$1.60 62-24451

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR) 1960, no. 1, p. 34-41.

DESCRIPTORS: *Fertilizers, Production, Nitric acid, *Phosphates, Decomposition, Calcium compounds, Nitrates, Carbonates, Ammonium compounds, Sulfates.

(Engineering--Chemical, TT, v. 9, no. 2)

62-24451

- I. Vol'fkovich, S. I.
- II. Margolis, F. G.
- III. Polyakov, N. N.
- IV. TVA-3881
- V. Tennessee Valley Authority, Wilson Dam, Ala.

Office of Technical Services

(SF-1331)

Industrial Water Desalination, by V. P. Meloshko,
11 pp.

RUSSIAN, per, Khim Prom, No 1, Jan/Feb 1960,
pp 41-44.

JPRS 4350

Sci - Geophys

Feb 61

139,260

Distribution of Current Density and Voltage with
Anode Depth in a Vertical Diaphragm Chlorine Cell,
by A.T. Kolotukhin, E.V. Mulin.
RUSSIAN, per, Khim.Prom, 1960, pp 43-47.
GB/39/KCD.1301

Sci -
July 1967

334-045

On the Acceleration of the Decomposition of
Sodium Amalgam, by G. I. Volkov, V. A.
Grinevich.

RUSSIAN, per, Khim Prom, No 1, 1960, pp 58-59.

MLL RTS 2061

Sci - Chem

Aug 62

207,385

Chemical Means of Protecting Nonmetallic Materials
from Attack by Microorganisms, by N. N. Mel'nikov,
I. L. Vladimirova.

RUSSIAN, per, Khim Prizn, No 1, 1960, pp 81-85.

ARM/FTIC/HR-23-034-69

Sci-Chem
July 69

384,688

Fridahteyn, I. L., Podol'skaya, P. I. and others.
ONE-STAGE METHOD FOR PREPARING ISOPRENE
FROM ISOPENTANE AND ISOPENTANE-ISOAMYL-
ENE MIXTURES. [1960] 13p.
Order from ATS \$15.75

ATS-78M46R

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 2, p. 89-95.

146,955

(Chemistry--Organic, TT, v. 5, no. 5)

61-12290

- I. Isoprene--Synthesis
- I. Fridahteyn, I. L.
- II. Podol'skaya, P. I.
- III. ATS-78M46R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

K-H 10424

Office of Technical Services

Amelin, A. G.
RÉGIME LE PLUS FAVORABLE POUR PURIFIER LES
GAZ DE GRILLAGE (Optimum Conditions for the Puri-
fication of Roaster Gas for Sulfuric Acid Production).

10p. 9 refs. FR-1528.

Order from OTS, ETC or CNRS \$0.80

62-26475

Trans. in French of Khimicheskaya Promyshlennost'
SSSR, 1960, no. 2, p. 116-126.

DESCRIPTORS: *Sulfuric acid, Production, *Combustion chamber gases, Aerosols, Purification, Heat exchangers, Humidity.

(Engineering-Chemical, TT, v. 10, no. 8)

62-26475

- I. Amelin, A. G.
- II. F/R-1528
- III. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Fokin, A. V. and Kosyrev, Yu. M.
PYROLYSIS OF FLUOROHYDROCARBONS. [1961]
[23p. (8 figs. 2 tables equations omitted) 8 refs.
Order from OTS or SLA \$2.60 62-10367

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 3, p. 186-192.

DESCRIPTORS: *Hydrocarbons, *Fluorides,
Ethylenes, Propenes, Butanes, Butenes, Pyrolysis.

(Chemistry--Physical, TT, v. 7, no. 9)

62-10367

I. Fokin, A. V.
II. Kosyrev, Yu. M.

Office of Technical Services

The Calculation of Catalytic Processes in Industrial
Reactors, by G. K. Boreskov, M. G. Blin'ko.

RUSSIAN, per, Khim Prom, No 3, 1960, pp 193-201.

ILL RFS 1883

OTS 61-27782

Sci - Chem

Mar 62

188,932

Use of Graphite in Chemical Apparatus, by Y. Moldavan.

RUSSIAN, per, Khim Prom, No 3, 1960, pp 251-254.

*U.K. Atomic Energy Authority
Risley, TRG Inf Ser 103(C)

Sci - Chem
Jul 62

Furman, M. S., Gol'dman, A. M. and others.
CONTINUOUS CATALYTIC OXIDATION OF CYCLO-
HEXANE WITH AIR UNDER PRESSURE. (1960) 12p.
Order from ATS \$19.65 ATS-24M47R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 4, p. 265-272.

146,957

(Chemistry--Physical, TT, v. 5, no. 5)

61-12286

1. Cyclohexanes--Oxidation
2. Air--Catalytic properties
3. Catalysts--Effectiveness
1. Furman, M. S.
- II. Gol'dman, A. M.
- III. ATS-24M47R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/RJ-2789

Office of Technical Services

70-13451-07A

Tsyskovskii, V. K.; Levina, M. I.; Freidin, B. G.

SYNTHESIS OF DIBASIC ACIDS BY DIRECT AIR

OXIDATION OF LIQUID PARAFFINS. Khimicheskaya

Promyshlennost, v. 36, n. 4, p. 272-274, 1960.

Order from NTC as 70-13451-07A: HC \$ 6.70, MF \$ 5.80.

Ioffe, I. I. and Pis'men, L. M.
A STATISTICAL METHOD FOR THE ANALYSIS OF
MACROKINETIC PROCESSES IN A FLUIDIZED
CATALYST BED. [1961] 13p.
Order from ATS \$16.85

ATS-08M46R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 4, p. 287-293.

DESCRIPTORS: *Catalysts, *Fluidized solids,
Statistical analysis, Reaction kinetics.

(Chemistry--Physical TT, v. 6, no. 4)

61-22211

- I. Ioffe, I. I.
- II. Pis'men, L. M.
- III. ATS-08M46R
- IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2942

177690

Office of Technical Services

Berlin, A. A.
SYNTHESIS AND PROPERTIES OF POLYMERS WITH
SYSTEMS OF CONJUGATED BONDS. 7 Nov 60, 1p.
AID rept. 60-91; AD-246 710.
Order from LC or SLA m\$1.80, ph\$1.80 61-13989

Abstract trans. of Khimicheskaya Promyshlennost'
(USSR) 1960, no. 5, p. 23-30.

143,341

(Materials--Plastics, TT, v. 5, no. 4)

61-13989

1. Polymers--Synthesis
 2. Polymers--Properties
 3. Polymers--Molecular structure
 4. Plastics--Development
- I. Berlin, A. A.
 - II. AID-60-81
 - III. Air Information Div.,
Washington, D. C.
 - IV. AD-246 710

Office of Technical Services

AN I---X DIAGRAM FOR A WATER VAPOR---HHYDROGEN SYSTEM,
BY ANATOL SELECKIALEKSANDER BLUM, 17 PP.

RUSSIAN, PER, KHIM PROM, NO 5, 1960, PP 59-61.
9678386

FTD-TT-62-1052

SCI - CHEM
11 OCT 62

212,377

(NY-5504)

Synthesis and Properties of Polymers With Systems of
Conjugated Bonds, by A.A. Berlin.

RUSSIAN, per, Khimicheskaya Promishlennost', No 5,
1960, pp 375-382.

JPRS 7475

Sci. - Phys

May 61

154,362

62-34230

Tsiklis, D. S., Kulikova, A. I., and Shenderel, L. I.
PHASE EQUILIBRIA IN THE SYSTEM ETHANOL-
ETHYLENE-WATER AT HIGH PRESSURES AND
TEMPERATURES. [1962] 10p.
Order from ATS \$14.50

ATS-36P62R

Trans. of Khim[icheskaia] Prom[yshlennost'] (USSR)
1960, no. 5, [p. 401-406].

DESCRIPTORS: *Ethanol, *Ethylenes, Water, Phase
studies, Thermodynamics, High pressure research,
High temperature research.

(Chemistry--Physical, TT, v. 9, no. 3)

I. Tsiklis, D. S.
II. Kulikova, A. I.
III. Shenderel, L. I.
IV. ATS-36P62R
V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Diagram I-x For a Steam-Hydrogen System,
by Anatol Seletsky and Aleksander Blyum,
6 pp.

RUSSIAN, per, Khim Prom, No 5, 1960, pp 411-413.
9690554

DDC RSIC-106

Sci - Chem
Jan 64

248,845

Empirical Equations of Equilibrium Distribution for
a Liquid-Liquid System, by A. G. Kasatkin, S. I.
Kagan, V. G. Trukhanov, 13 pp.

RUSSIAN, per, Khim Prom, No 6, 1960, pp 50-54.

CIA/FDD XX-1116

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Mar 62

USIB INTERNAL USE ONLY

NI 1116152 (Per)
185, 952

Berlin, A. A.
SYNTHESIS AND PROPERTIES OF POLYMERS WITH
A SYSTEM OF CONJUGATED BONDS. [1961] 15p.
Order from ATS \$21.90 ATS-70N49R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 6, p. 444-452.

DESCRIPTORS: *Polymers, Chemical bonds,
Synthesis, Properties.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25198

- I. Berlin, A. A.
- II. ATS-70N49R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/RJ-3005

1-1984

Office of Technical Services

Experience in the Application of Radioactive
Level Measuring and Indicating Apparatus, by M
M. A. Vekalen.

RUSSIAN, per, Khim Prom, No 6, 1950, pp 483-487.

NLL M 8880

Sci - Engr
Mar 63

223,698

Kasatkin, A. G., Kagan, S. Z., and Trukhanov, V. G.
EMPIRICAL EQUATIONS OF EQUILIBRIUM DISTRIBUTION FOR A LIQUID-LIQUID SYSTEM [1962]
[14p. 13 refs.
Order from OTS or SLA \$1.60 62 10969

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 6 [p. 489-492].

DESCRIPTORS: *Liquids, *Chemical equilibrium, Equations, Phase studies, *Solvent extraction, Organic solvents.

(Chemistry-Physical, TT, v. 8, no. 4)

62-10969

I. Kasatkin, A. G.
II. Kagan, S. Z.
III. Trukhanov, V. G.

62-14923

Office of Technical Services

Comparing the Effectiveness of Extraction by Means
of Pulse Packed Columns With Continuous Aqueous and
Organic Phases, by S. M. Karpacheva, E. P. Rodionov,
G. M. Popova, 9 pp.

RUSSIAN, per, Khim Prom, No 6, 1960, pp 496-499.

CIA/FDD XX-10910
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Jan 62

USIB INTERNAL USE ONLY

OTS 68 1072

178,514

NAL 118950

Berkman, B. E.
SELECTION OF A PHENOL MANUFACTURING
PROCESS: [1961] 6p.
Order from ATS \$11.25

ATS-04N55R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 7, p. 26-28.

DESCRIPTORS: *Phenols, Manufacturing methods.

(Engineering--Chemical, TT, v. 6, no. 11)

61-25550

I. Berkman, B. E.
II. ATS-04N55R
III. Associated Technical
Services, Inc., East
Orange, N. J.

181097

Office of Technical Services

62-12664

Lubyanitskii, I. Ya., Minati, R. V., and Furman, M. S.
OXIDATION OF CYCLOHEXANOL AND CYCLO-
HEXANONE WITH NITRIC ACID UNDER PRESSURE:
OXIDATION OF CYCLOHEXANOL WITH NITRIC
ACID UNDER PRESSURE IN THE PRESENCE OF A
CATALYST. [1961] 16p.
Order from ATS \$27.50

ATS-48N58R

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 7, p. 529-537.

DESCRIPTORS: *Cyclohexanols, *Cyclohexanones,
Oxidation, Nitric acid, Pressure, Catalysts.

(Chemistry--Organic, TT, v. 7, no. 10)

I. Lubyanitskii, I. Ya.
II. Minati, R. V.
III. Furman, M. S.
IV. ATS-48N58R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

The Preparation of 5/6 Aluminum Oxychloride and
the Prospects of its Industrial Utilization,
by E. A. Levitskii.
RUSSIAN, per, Khimicheskaya Promyshlennost,
No 7, 1960, pp 557-558.
NTC 71-13913-07B

Feb 72

(SF-1585)

International Symposium on Macromolecules, by M. I.
Lokhlin, 7 pp.

RUSSIAN, per, Khim Promyshlennost', No 7, Oct/Nov 1960,
pp 613-614.

JPBS 4491.

Sci. - Chem

Apr 61

147,281

Technical Progress and Economics in the Soviet
Nitrogen Industry, by N. A. Simulin, 11 pp.

RUSSIAN, per, Khim Prom, No 8, Dec 1960, pp 1-5.

CIA/PDD X-4867

USSR

Econ

Apr 62

192,174

Kinetic Relationships in the Reaction of
Chelins With Sulfuric Acid, by M. S. Mant-
sov.

RUSSIAN, per, Khim Prom, No 8, 1960, pp 15-23.

ATS RJ-3967

Sci-Chem
Dec 63

244,862

Gol'dberg, N. A. and Zagranichnyi, V. I.
A CONTINUOUS METHOD FOR THE PRODUCTION
OF MELAMINE FROM DICYANDIAMIDE. 13 June 61.
9p. 6 refs.
Order from OTS or SLA \$1.10

61-18705

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, p. 624-626.

DESCRIPTORS: *Melamine, Production, *Cyanamides,
Calcium compounds, Chemical reactions, *Amides.

The starting material for the method is dicyandiamide,
prepared from calcium cyanamide.

(Chemistry--Organic, TT, v. 6, no. 10)

61-18705

I. Gol'dberg, N. A.
II. Zagranichnyi, V. I.

187280

Office of Technical Services

Efremova, G. D. and Leont'eva, G. G.
THE SOLUBILITY OF MELAMINE IN SOLUTIONS
OF DICYANDIAMIDE IN LIQUID AMMONIA. [1961]
[5]p. 3 refs.

Order from OTS or SLP \$1.10

62-10248

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960 [no. 8] p. 626-627.

DESCRIPTORS: *Melamine, Solubility, Heat of
solution, *Ammonia, *Cyanamides.

Experiments showed that the solubility of melamine
depends on the concentration of dicyandiamide in
liquid ammonia. The fact that the solubility of
melamine in solutions of dicyandiamide in liquid
ammonia can increase or decrease with increasing
temperature, depending on the concentration of di-
cycandiamide in the solution, indicates that the heat of
solution changes sign as the concentration of di-
cycandiamide in the solution increases.
(Chemistry--Physical TT, v. 8, no. 10)

62-10248

I. Efremova, G. D.
II. Leont'eva, G. G.

Office of Technical Services

62-22192

Nemtsov, M. S.
KINETIC RELATIONSHIPS IN THE REACTION OF
OLEFINS WITH SULFURIC ACID [Kineticheskie
Zakonomernosti Vzaïmodel'stviya Olefinov s Sernoi
Kislotoï]. Oct 61, 11p. 21 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 8 [p. 633-641].

DESCRIPTORS: *Chemical engineering, *Propenes,
Chemical reactions, Adsorption, Reaction kinetics,
*Sulfuric acid.

(Chemistry--Physical. TT, v. 9, no. 4)

I. Nemtsov, M. S.
II. International Chemical
Engineering, New York

Office of Technical Services

63-16233

Tsyskovskii, V. K., Bocharov, A. A., and Sasin,
E. M.

SYNTHESIS OF OXY ACIDS AND THEIR DERIVATIVES
BY CONTINUOUS OXIDATION OF LIQUID PARAFFINS.

[1963] Sp. (figs. omitted) 6 refs.

Order from OTS or SLA \$1.10

63-16233

Trans. of [Khimicheskaya Promyshlennost' (USSR)] 1960,
no. 8, p. 642-643.

DESCRIPTION: "Organic acids, Oxidation, Synthesis
(Chemistry), Oxides, Carboxylic acids, Ketones

(Chemistry--Organic, TT, v. 10, no. 11)

I. Tsyskovskii, V. K.
II. Bocharov, A. A.
III. Sasin, E. M.

ALSO

SLA TT-66-10619

Office of Technical Services

Sorokin, M. F., Angarskaya, E. Ya., and Shuvalova, A. N.

THE MECHANISM OF FORMATION OF EPOXY RESINS FROM EPICHLOROHYDRIN AND BIS(HYDROXYPHENOL) PROPANE [1961] [20]p. 11 refs.
Order from OTS or SLA \$1.60

62-10666

Trans. of Khimicheskaya Promyshlennost' (USSR) 1960, no. 8, p. 643-652.

DESCRIPTORS: *Epoxy resins, *Halohydrins, Phenols, *Propanes, Ethers, Glycerols, Hydrolysis, Synthesis.

Epoxy resins with increased softening temperatures can be obtained by the method of direct condensation, not resorting to the fusion method. Resins with higher softening temperatures have been obtained (with a molar ratio of epichlorohydrin to bis(hydroxyphenyl) propane from 1.5:1 to 1.1:1) by the method in which epichloro- (Chemistry--Organic, TT, v. 8, no. 7) (over)

62-10666

- I. Sorokin, M. F.
- II. Angarskaya, E. Ya.
- III. Shuvalova, A. N.

Office of Technical Services

Furman, M. S., Shestakova, A. D. and others.
OXIDATION OF n-BUTANE IN THE LIQUID PHASE
UNDER PRESSURE. Oct 61, 6p. 18 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 1, p. 6-11.

DESCRIPTORS: *Butanes, Oxidation, *Acetic acids,
Ketones, Acetates.

(Chemistry--Organic, TT. v. 8, no. 8)

62-22200

- I. Furman, M. S.
- II. Shestakova, A. D.
- III. International Chemical
Engineering, New York

Office of Technical Services

Khmel'nitzkaya, I. L., Gutorko, L. I. and others.
TECHNOLOGIE DE LA PREPARATION DES TOLUENE-
DISOCYANATES (Preparation of Toluene-di-isocyan-
ates). 7p. 6 refs. FR-1956.
Order from OTS, ETC or CNRS \$0.80 62-26438

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 1, p. 18-21.

DESCRIPTORS: "Toluenes, "Isocyanic acids, Amines,
Preparation.

(Chemistry--Organic, TT, v. 10, no. 8)

62-26438

I. Title: Toluene-diiso-
cyanates

I. Khmel'nitzkaya, I. L.

II. Gutorko, A. V.

III. F/R-1956

IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Mukhlenov, I. P., Traber, D. G. and others.
OXYDATION DU SO₂ DANS UN REACTEUR A CATA-
LYSATEUR FLUIDIFIE (Oxidation of Sulfur-dioxide Gas in
an Apparatus with a Fluidized Catalyst Bed). 10p.

18 refs. FR-1737.

Order from OTS, ETC or CNRS \$0.80 62-26454

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 1, p. 42-46.

DESCRIPTORS: *Sulfuric acid, Production, *Catalysts,
*Vanadium, Processing, Fluidized solids.

(Engineering--Chemical, TT, v. 10, no. 8)

62-26454

- I. Mukhlenov, I. P.
- II. Traber, D. G.
- III. F/R-1737
- IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Gel'perin, N. I. and Kvasha, V. B.
MAINTAINING OPTIMUM TEMPERATURE CONDI-
TIONS IN CHEMICAL REACTORS. Oct 61, 6p.
5 refs.

Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 1, p. 51-56.

DESCRIPTORS: *Towers (Chemistry), Rectifiers,
Distilling plants, *Heat exchangers, Temperature.

(Engineering--Chemical, TI, v. 8, no. 8)

62-22198

I. Gel'perin, N. I.
II. Kvasha, V. B.
III. International Chemical
Engineering, New York

Office of Technical Services

(SF-1879)

All-Union Conference on Ultrasonics, by V. M.
Patakevich, 4 pp.

RUSSELL, per, Khim Prom, No 1, 1961, pp 72-73.

JPRS 49005-20

166, ~~259~~

Sci - Engr.

Sep 61

FID-17-63 1-6
9659793

Mikhailov, V. V.
PRODUCTION OF PHOSPHATE FERTILIZERS OUT-
SIDE THE USSR. II. DECOMPOSITION OF PHOS-
PHORITES WITH SULPHURIC ACID (Proizvodstvo
Fosfatnykh Udobrenii za Granitsei. II. Razdozhenie
Fosforitov Sernoi Kislotoi). [1963] [14]p. (foreign text
included) 16 refs.

Order from OTS or SLA \$1.60

63-18140

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 18 [66. 2] p. 28-31.

DESCRIPTORS: *Fertilizers, Phosphates, Decomposit-
tion, *Phosphorites, *Sulfuric acid.

(Agriculture--Plant Cultivation, TT, v. 10, no. 9)

63-18140

I. Mikhailov, V. V.
II. Title: Decomposition ...

Office of Technical Services

(SF-1875)

Several Problems of the Technology of the Catalytic
Production of Liquid Parahydrogen, by R. A. Bayanov,
A. G. Zel'dovich, Yu. K. Pilipenko, 10 pp.

RUSSIAN, per, Khim Prom, No 2, 1961, pp 31-34.

JPRS 10385

Sci - Chem

174,039

Nov 61

(SF-1879)

All-Union Inter-VUZ Conference on the Theory and Practice of Rectification in the Chemical and the Food Industries, by P. Tsygankov, 9 pp.

RUSSIAN, per, Khim Promyshlennost', No 2, 1961, pp 70-73.

JPRS 10377

USSR

172,011

Econ

Oct 61

Some Problems of the Technology of Catalytic
Production of Liquid Para-Hydrogen, by
R. A. Bryunov, A. G. Zel'dovich,
Yu. K. Filipenko, 12 pp.

RUSSIAN, per, Khim Prom, No 2, 195
No 2, 1961, pp 105-108. 9673086

FTD-TT-61-192

Sci - Chem

182,599

15 Feb 62

Zelinski, Yu. G. and Kafarov, V. V.
HYDRODYNAMIC CONDITIONS ON OPEN-GRID
(TURBOGRID) TRAYS. Oct 61, 6p. 25 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 2, p. 122

DESCRIPTORS: Metal plates, *Hydrodynamics, Re-
sistance, Bubbles, Oscillation, Towers (Chemistry).

(Engineering--Chemical, TT, v. 8, no. 8)

62-22199

- I. Zelinski, Yu. G.
- II. Kafarov, V. V.
- III. International Chemical
Engineering, New York

Office of Technical Services

Zelinskii, Yu. G. and Kafarov, V. V.
LES RÉGIMES HYDRODYNAMIQUES SUR UN
PLATEAU CREUX (Gidrodinamicheskie Rezhimy na
Proval'noi Tarelke) [Hydrodynamic Conditions on
Open-Grid (Turbogrid) Trays] tr. by de Trezvinsky.
19 Apr 62 [22]p. (Russian text included) 25 refs. CEA
Trans. no. R 1609 (text in French).
Order from OTS or SLA \$2.60 62-33740

Trans. in French of Khim[icheskaya] Promyshl[ennost']
(USSR) 1961, no. 2, p. 122-125.
A trans. is available in English from ICE in v. 1,
no. 1, \$15.00/year.

DESCRIPTORS: Metal plates, *Hydrodynamics, Re-
sistance, Bubbles, Oscillation, Towers (Chemistry).

(Engineering--Chemical, TT, v. 9, no. 8)

62-33740

- I. Zelinskii, Yu. G.
- II. Kafarov, V. V.
- III. CEA-tr-R1609
- IV. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

Rozantsev, E. G., Klimenko, M. Ya., and
Myshkin, A. E.
THE RECOVERY OF ISOAMYLENES FROM THE
PENTANE-AMYLENE FRACTION. [1961] 5p.
Order from ATS \$8.00 ATS-67P58R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 3, p. 24-26.

DESCRIPTORS: Recovery, *Pentanes, Fractionation,
*Ethylenes.

(Chemistry--Organic. TT, v. 7, no. 9)

62-12644

1. Title: Amylenes
- I. Rozantsev, E. G.
- II. Klimenko, M. Ya.
- III. Myshkin, A. E.
- IV. ATS-67P58R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-3728

Office of Technical Services

PRODUCTION OF PARTICLE-SIZE DISTRIBUTION CURVES
OF A POWDER, BY N. N. TSYURUPA.

RUSSIAN, PER, KHIM PROM, NO 3, 1961, PP 37-42.

NLL RTS 2048

SCI - CHEM

OCT 62

214,754

The Provision of Optimal Temperature Conditions
in Chemical Reactors, by I. I. Gal'perin,
V. B. Ryabko.

RUSSIAN, per, Khim Prom, No 3, 1961, pp 51-56.

NLL Ref: 5828.4 1962 (10,068)
(loan)

Sci - Chem
Jul 63

236,086

(SF-1879/6)

Explosion Danger of Mixtures of Oxides of Nitrogen
With Combustible Gases and Vapors (Mixtures of
Nitric Oxide and Dioxide Under Atmospheric Pressure),
by B. B. ~~Grandt~~, A. I. Rozlovskiy, V. S. Khaylov,
12 pp.

RUSSIAN, per. Khim Prom, No 3, 1961, pp 56-62.

JPRS 10278

174,089

Sci - Chem

The Selection of Materials for Apparatus for
the Direct Hydrogenation of ~~H₂~~ Higher Fatty
Acids, by D. M. Mayorov, et al.

RUSSIAN, per, Khim Prom, No 3, 1961, pp 62-63.
4

NIL M ETS 1999

TS 201,014

Sci - Chem
Jun 62

201,014

Nov 61

(SF-1379/6)

Obtaining 2,4,5-Trichlorophenol by Saponification of
1,2,4,5-Tetrachlorobenzol in a Medium of Methyl
Alcohol, by I. A. Troyanov, S. M. Sheyn, V. A.
Ignatov, 4 pp.

RUSSIAN, per, Khim Prom, No 3, 1961, pp 65-66.

JPRS 10273

174,090

Sci - Chem.

(SF-1379/6)

Prospects for the Development of the Chemical Industry
in the Rumanian People's Republic, by Michael
Florescu, 9 pp.

RUSSIAN, per, Khim Prom, No 3, 1961, pp 69-72.

JPRS 10278

EEur -- Rumania

174,091

Econ

Kasatkin, A. G., Kagan, S. Z., and
Trukhanov, V. G.
INVESTIGATION OF THE STATICS OF THE
EXTRACTION OF CAPROLACTAM WITH OR-
GANK SOLVENTS. [1963 12p.
Order from ATS \$12.75 ATS-55Q69R

Trans. of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 3, p. 190-196.

DESCRIPTORS: *Organic solvents, *Solvent extrac-
tion, Statics, *Lactams.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17734

- I. Title: Caprolactam
- I. Kasatkin, A. G.
- II. Kagan, S. Z.
- III. Trukhanov, V. G.
- IV. ATS-55Q69R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-3847

Office of Technical Services

Brandt, B. B., Rozlovskii, A. I., and Khallov, V. S.
EXPLOSION HAZARD OF MIXTURES OF NITROGEN
OXIDES WITH COMBUSTIBLE GASES AND VAPORS:
MIXTURES OF NITRIC OXIDE AND NITROGEN
DIOXIDE AT ATMOSPHERIC PRESSURE. [1961] 10p.
Order from ATS \$14.25 ATS-03N54R

Trans. of Khim[icheskiye] Prom[yshlennosti'] (USSR)
1961, no. 3, p. 204-210.

DESCRIPTORS: *Nitrogen compounds, Oxides,
Hazards, *Explosions, *Detonation, Gases, Vapors.

(Chemistry--Physical, TT, v. 6, no. 8)

61-25383

- I. Brandt, B. B.
- II. Rozlovskii, A. I.
- III. Khallov, V. S.
- IV. Title: Mixtures...
- V. ATS-03N54R
- VI. Associated Technical
Services, Inc.,
East Orange, N. J..

ATC/RJ-2935

25250

Office of Technical Services

62-17299

Troyanov, I. A., Shein, S. M., and Ignatov, V. A.
PREPARATION OF 2,4,5-TRICHLOROPHENOL BY
THE HYDROLYSIS OF 1,2,4,5-TETRACHLOROBEN-
ZENE IN METHYL ALCOHOL MEDIUM. [1962] 3p.
Order from ATS \$5.00 ATS-79P59R

Trans.*of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 3, p. 213-214.

DESCRIPTORS: *Chlorides, *Phenols, Synthesis,
Benzenes, Hydrolysis, *Methanols.

- I. Troyanov, I. A.
- II. Shein, S. M.
- III. Ignatov, V. A.
- IV. ATS-79P59R
- V. Associated Technical
Services, Inc., East
Orange N. J.

ATS-RJ-3729

(Chemistry--Organic. TT. v. 8. no. 2)

Office of Technical Services

63-12264

Braude, G. E., Leites, I. L., and Dedova, I. V.
THE SOLUBILITY OF ACETYLENE, CARBON DIOX-
IDE AND HIGHER ACETYLENIC HYDROCARBONS IN
THE DIMETHYLPORMAMIDE-WATER SYSTEM.
[1962] 7p.

Order from ATS \$8.25

ATS-02P65R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 4, p. 10-13.

DESCRIPTORS: *Acetylenes, *Carbon dioxide, Hydro-
carbons, Solubility, Methyl radicals, *Pormamides.
Water.

(Chemistry--Organic, TT, v. 9, no. 2)

I. Braude, G. E.
II. Leites, I. L.
III. Dedova, I. V.
IV. ATS-02P65R
V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RT-3941

Office of Technical Services

(SV-1879)

The Use of Hexachlorane in Insecticidal Aerosols, by
G. P. Luchinskii, K. S. Tolstov, P. A. Korolev,
6 pp.

RUSSIAN, per, Khim Prom, No 4, 1961, pp 13-15.

JPRS 10302

174,038

Sci - Chem

Nov 61

METHODS OF MANUFACTURE OF SODIUM ALKYL
SULFATES AND THEIR PROCESS AND ECO-
NOMICS EVALUATION. [1961] 10p. ATS-28N58R
Order from ATS \$14.45

II. Klimenko, V. L.
III. ATS-28N58R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)

Solchani, P.
A NEW METHOD OF DESCRIBING THE EXPANSION
OF A FLUIDIZED BED. [1961] 5p.
Order from ATS \$7.85

ATS-59P58R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 4, p. 45-47.

DESCRIPTORS: *Fluidized solids.

(Engineering--Chemical), TT, v.7, no. 10)

62-12663

- I. Solchani, P.
- II. ATS-59P58R
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-3216

Office of Technical Services

Brunshstein, B. A. and Klimenko, V. L.
METHODS OF PRODUCING SODIUM ALKYL
SULPHATES AND THEIR TECHNICAL AND ECONOMIC
ASSESSMENT. [1963] [14p] 8 refs
Order from OTS or SLA \$1.60 63-20044

Trans. of Khimicheskaya Promyshlennost' (USSR) 1961,
no. 4 [p. 253-257].
Another trans. is available from ATS \$14.45 as
ATS-28N58R [1961] 10p.

DESCRIPTORS: *Surface-active substances, *Cleaning
compounds, *Sodium compounds, Alkyl radicals,
*Sulfates, Manufacturing methods, *Fatty acids,
*Alcohols, *Economics.

The production of sodium alkyl sulphates from alcohols,
obtained by the direct hydration of synthetic fatty acids,
is more advantageous than their production from alco-
hols from the hydration of butyl esters, not only for
(Materials, TT, v. 10, no. 11) (over)

63-20044

1. Title: Sodium alkyl
sulfates

I. Brunshstein, B. A.
II. Klimenko, V. L.

Office of Technical Services

Effect of Macrokinetic Factors on the Rate
of Oxidation of Naphthalene in a Fluid-
ized Catalyst Bed, by I. I. Ioffe, et al.

RUSSIAN, per, Khim Prom. No 4, 1961,
pp 258-263.

NLL M.4E606

Sci - Chem
Apr 62

193,804

62-34336

Solchani, P.
A NEW METHOD OF DESCRIBING THE EXPANSION
OF A FLUIDIZED BED. Apr 62, 3p. 7 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 4 [p. 267-269].
Another trans. is available from ATS \$7.85 as
ATS-59P58R [1961] 5p.

DESCRIPTORS: *Chemical engineering, *Fluidized
solids, Particles, Volume, Mathematical prediction.

(Engineering--Chemical, TI, v. 8, no. 11)

I. Solchani, P.
II. International Chemical
Engineering, New York

Office of Technical Services

62-17287

Tyuryaev, I. Ya., Tsallingol'd, A. L., and
Bullov, A. B.
NONHOMOGENEITY OF A FLUIDIZED CATALYST
BED. [1962] 6p.
Order from ATS \$9.30 ATS-60P58R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 5, p. 60-63.

DESCRIPTORS: *Fluidized solids, Catalysts.

I. Tyuryaev, I. Ya.
II. Tsallingol'd, A. L.
III. Bullov, A. B.
IV. ATS-60P58R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-3300

(Engineering--Chemical, TT, v. 8, no. 4)

Office of Technical Services

(SF-1878)

Scientists and Scientific Organizations of the USSR
(Chemical Industry), by I. A. Sheftil, S. V.
Kuznetsov, A. L. Leonov, 8 pp.

RUSSIAN, per, Khim Prom, No 5, 1961, pp 70-73.

JPRS 10503

USSR

Econ

174,025

Tsyakovskii, V. K. and Shcheglova, P. Ts.
 THE EFFECT OF TEMPERATURE OF OXIDATION
 OF n-PARAFFINIC HYDROCARBONS ON THE
 DECOMPOSITION OF ALKYLHYDROPEROXIDES. [1963]
 [7p] 9 refs
 Order from OTS or SLA \$1.10 63-20014

Trans. of Khimicheskaya Promyshlennost' (USSR)
 1961, no. 5, p. 325-326.

DESCRIPTORS: Hydrocarbons, *Alkanes, *Oxidation,
 Peroxides, Carbonyl radicals, Degradation, *Alcohols,
 Carboxylic acids, Esters, Molecular weight,
 Temperature.

Oxidation of n-decane, n-undecane, and n-tridecane,
 was conducted on a Mn naphthenate catalyst and in the
 presence of a basic acid esterification agent. Analysis
 of the oxidation products revealed that with increasing
 (Chemistry--Organic, TT, v. 10, no. 12) (over)

63-20014

1. Title: Alkylhydroperoxides
2. Title: n-Decane
3. Title: n-Tridecane
4. Title: n-Undecane
- I. Tsyakovskii, V. K.
- II. Shcheglova, P. Ts.

Office of Technical Services

62-14634

Rudkovskii, D. M., Brunstein, B. A., and Klimenko, V. L.

THE PRODUCTION OF BUTYRALDEHYDE BY THE
OXO SYNTHESIS METHOD. [1962] 5p. 5 refs.
Order from UTS or SIA \$1.10 62-14634

I. Rudkovskii, D. M.
II. Brunstein, B. A.
III. Klimenko, V. L.

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961, no. 5 [p. 335-338].

DESCRIPTORS: *Butyl radicals, *Aldehydes,
Butanols, Ethanol, Canavanine, Propanes, Produc-
tion, *Oxo process.

An examination is made of the technical-economic
characteristics of the production of butyraldehyde and
the range of effective development is determined.

(Engineering-Chemical, TT, v. 6, no. 10)

Office of Technical Services

Removal of Sulphur Compounds From Hydrocarbon Gases,
by E. G. Rozantsev, I. I. Berger.

RUSSIAN, per, Khim Prom, Vol V, 1961, pp 339-340.

Dept of Interior
Tr No 1663

Sci

Jan 63

Gel'perin, N. I. and Assmus, M. G.
MASS TRANSFER IN INJECTOR EXTRACTION
COLUMNS. In 62, 4p. 1 ref.
Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 5, p. 348ff.

DESCRIPTORS: *Mass transfer, *Injectors, Towers
(Chemistry), Xylenes, Acetic acids, Ethers, Water,
*Chemical engineering.

(Engineering--Chemical, TT, v. 8, no. 10)

62-34294

- I. Gel'perin, N. I.
- II. Assmus, M. G.
- III. International Chemical
Engineering, New York

Office of Technical Services

Tyuryaev, I. Ya., Tsailingol'd, A. L. and Bullov, A. B.
 HETEROGENITE DU LAT FLUIDISE DU CATALYSEUR
 (Neodnorodnost' Vzhennogo Slova Katalizatora)
 (Heterogeneity of a Fluidized Catalyst Bed). 14p.
 (foreign text included) 12 refs. CNRS-VIII bis 796
 Order from CTS, BTC or CNRS \$0.80 TT-62-29186

Trans. in ~~French~~ of Khimicheskaya Promyshlennost'
 (USSR) 1961, no. 5, 356-359.
 Another trans. is available in English from ATS
 \$9.30 as ATS-60P58R [1962] 6p.

DESCRIPTORS: *Catalysts, Fluid flow, Gas flow,
 Particles, Chemical reactions.

60p 58R
ATS-60P58R 6p

(Chemistry, TT, v. 11, no. 7)

TT-62-29186

- I. Tyuryaev, I. Ya.
- II. Tsailingol'd, A. L.
- III. Bullov, A. B.
- IV. CNRS-VIII bis 796
- V. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
 European Translations Centre

Production of Manganese Dioxide of Reagent
Purity, by D. M. Korf, and A. A. Mazuren.
RUSSIAN, per, Khim. Prom, Vol. 5, 1961,
p 361.
MLL Ref: 5828.4F (12676)

Sci-Chemistry
Jul 68

360,782

(SF-1379)

The Hydrothermal Refining of Phosphates in a Cyclone
Furnace, by S. I. Vol'fkovich, 23 pp.

RUSSIAN, par, Khim Prom, No 6, 1961, pp 24-29.

JPRS 10911

Sci - Chem

175, 682

Dec 61

(SF-1877)

The Ammonia - Phosphoric Acid Method of Refining
Weak Sulphur Gases With the Production of Ammophos,
by N. A. Vasilenko, 21 pp.

RUSSIAN, per, Khim Prom, No 6, 1961, pp 30-35.

JPRS 11006

Sci - Chem

176, 015

Dec 61

Corrosion of Copper and Its Alloys in Hydrofluoric
Acid, by E. I. Antonovskaya, Yu. N. Vil'k.

RUSSIAN, per, Khim Prom, No 6, 1961, pp 61-62.

*FTD-TT-62-724

Sci - Chem

26 Apr 62

Vol'tkovich, S. I., Ionass, A. A. and others.
HYDROTHERMAL PROCESSING OF PHOSPHATES
IN A CYCLONE FURNACE. Jan 62, 7p. 3 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 6 [p. 394-399].
Another trans. is available from OTS or SLA \$2.60
as 62-13405, JPRS-10911, 2 Nov 61 [25]p.

DESCRIPTORS: *Phosphates, Refineries, Purification,
*Cyclone furnaces, *Chemical engineering.

(Engineering--Chemical, TT, v. 8, no. 10)

62-34301

- I. Vol'tkovich, S. I.
- II. Ionass, A. A.
- III. International Chemical
Engineering, New York

Office of Technical Services

Khodorov, E. I.
ENTRAINMENT OF MATERIALS FROM ROTARY
KILNS (Uboe Materiala iz Vrashchayushchikhaya
Pechei). [1962] [13]p. (foreign text included) 7 refs.
Order from OTS or SLA \$1.60 62-16007

Trans. of Khimicheskaya Promyshlennost' (USSR) 1961,
no. 6, p. 416-420.

DESCRIPTORS: *Rotary furnaces, Temperature, Fuel
consumption, Gases, Particles, Motion, Velocity, Tur-
bulence, Gas flow, Heating.

(Engineering--Chemical, TT, v. 9, no. 2)

62-16007

1. Title: Entrainment
1. Khodorov, E. I.

Office of Technical Services

Experience in the Use of Automated Filter Press
for the Isolation of Dyestuff Suspensions, by
M. I. Goldfarb, T. A. Malinovskaya.

RUSSIAN, per, Khim Prom, Vol VI, 1961, pp 420-424.

NLL RTS 2031

Eci - Chem

Jul 62

204,842

Platonov, V. M., Monko, Ya. D., and Bergo, B. G.
THE "URAL" DIGITAL COMPUTER AS AN AID IN
CALCULATING UNSTEADY-STATE RECTIFICATION.
Jan 62. 5p. 2 refs.

Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 6 [p. 424-430].

DESCRIPTORS: *Chemical engineering, *Digital
computers, *Rectifiers, Mass transfer, Towers
(Chemistry).

(Mathematics--Computing Devices, TT, v. 8, no. 10)

62-34303

1. Title: "Ural" computer
- I. Platonov, V. M.
- II. Monko, Ya. D.
- III. Bergo, B. G.
- IV. International Chemical
Engineering, New York

Office of Technical Services

Production of Hydrogen Fluoride from
Silicon Tetrafluoride, by N. H. [unclear]
S. M. Vol'fkovich, et al, 9 pp.

RUSSIAN, per, Khim Prom, No 7, 1961, 17-18
9671756

FTD-TP-61-105

Sci - Chem

176,076

14 Dec 61

Production and Use of Molecular Sieves in the
USSR, by A. V. Agafonov, M. M. Budinin,
B. A. Onusaitis, et al.

RUSSIAN, per, Khim Prom, No 7, 1961,
pp 26-30.

NLL Tr Bulletin

8
USSR
Econ
Apr 62
Sci - Engr

193,923

Investigation of the Hydro Dynamic
Processes in the Pseudo-Combustible Layer
of Solid Particles Under High Pressure.
by O. S. Chelkov.

RUSSIAN, per, Khim Prom, No 7, 1961,
pp 48-50.

TIL/T. 5352

Sci - Chem
Oct 63

Boguslavskii, N. M., Vol'fkovich, S. N. and others.
PREPARATION OF HYDROGEN FLUORIDE FROM
SIF₄. [1963] 6p. (figs. tables omitted).
Order from OTS or SLA \$1.10

63-14165

Trans. of Khim[icheskaya] Prom[ishlennost'] (USSR)
1961 [no. 7] p. 450-452.
Another trans. is available from OTS or SLA \$1.60 as
62-13583, FTD-TT-61-105, 23 Oct 61 [11]p.

DESCRIPTORS: *Hydrogen compounds, *Fluorides,
*Silicon compounds, Phosphates, Ammonium radicals,
Decomposition, Costs, Chemical reactions.

For abstract see Technical Translations Z:783, 1962.

(Chemistry Inorganic, TT, v. 10, no. 7)

63-14165

I. Boguslavskii, N. M.
II. Vol'fkovich, S. N.

Office of Technical Services

Agafonov, A. V., Dubinin, M. M. and others.
TRAVAUX ACCOMPLIS EN U.R.S.S. POUR LA PRÉ-
PARATION ET LES APPLICATIONS DE NOUVEAUX
ADSORBANTS SÉLECTIFS; LES TAMIS MOLECULAIRES
(Preparation and Applications of New Selective
Adsorbents: Molecular Sieves). 8p. FR-2357.
Order from OTS, ETC or CNRS \$0.80 62-26451

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 7, p. 470-474.

Other translations are available in English from
ATS \$17.45 as ATS-36P59R, 9p.; from HMSO \$0.77
in NLL Translations Bulletin, 1962, v. 4, no. 1.

DESCRIPTORS: Adsorbents, *Organolites, *Particulate
filters.

(Chemistry--Physical, TT, v. 10, no. 8)

62-26451

- I. Agafonov, A. V.
- II. Dubinin, M. M.
- III. F/R-2357
- IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Hydraulic Relationships in Processes on Dual-
Flow Bubble Trays, by A. G. Kasutkin.
RUSSIAN, per, Khim Prom, Vol 37, No 7, 1961,
pp 482-491.
ATS RJ-4973

Sci-Phys
Feb 69

373,787

Separation of Finely Dispersed Powder Fractions in
a Series of Cyclones, by R. S. Fraiman, V. G. Syrkin,
et al, 8 pp.
RUSSIAN, paper, Khim Prom, Mat No 7, 1961, pp 494-498.
ATS-21Q71R

Sci-Chem
March 64

252,080

Krichevskii, I. R., Efremova, G. D. and others.
PHASE AND VOLUME RELATIONSHIPS IN THE
SYSTEM ACETIC ACID-BUTANE. [1962] 9p.
Order from ATS \$9.75 ATS-38F63R

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961, no. 7, p. 498-502.

DESCRIPTORS: *Acetic acids, *Butane, Phase studies,
Volume.

(Chemistry--Organic, TT, v. 8, no. 11)

62-34165

- I. Krichevskii, I. R.
- II. Efremova, G. D.
- III. ATS-38F63R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

POSSIBILITIES FOR THE PRODUCTION OF RAW
MATERIAL FOR PETROLEUM CHEMISTRY AT THE
PETROLEUM PROCESSING PLANTS OF THE USSR,
BY I. R. OSADCHENKO, V. L. KLIMENKO, 21 PP.

RUSSIAN, PER, KHIM PROM, ^{NO} 8, 1961,
PP 1-7.

NLL TR BULLETIN
VOL 4, NO 2, 1962

USSR
ECON
JUN 62

129,036

Efremova, G. D. and Pryanikova, R. O.
LIQUID-LIQUID EQUILIBRIUM IN THE SYSTEM ACETIC ACID-WATER-BUTANE. [1962] 5p.
Order from ATS \$5.75 ATS-39P63R

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961, no. 8, p. 564-566.

DESCRIPTORS: *Acetic acids, Water, *Butanes,
Liquids, Phase studies, *Chemical equilibrium.

ATS-39P63R-3701

(Chemistry--Physical, TT, v. 9, no. 1)

62-34259

- I. Efremova, G. D.
- II. Pryanikova, R. O.
- III. ATS-39P63R
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

Calculation of the Process of Vapour
Condensation From a Vapour-Gas Mixture,
by M. E. Ivanov.
RUSSIAN, per, Khimicheskaya Promyshlennost',
1961, No 9, pp 52-58.
NLL RTS 2406 (On Loan or Purchase)

Aug 65

288,852

R-231/63

Some Questions of the Planning Organization of
Chemical Enterprises, by V. V. Nezhinskiy. SF-2737

RUSSIAN, per, Khim Prom, No 9, 1961, pp 593-596.

*JPRS

USSR

Econ

Jul 63

The Manufacture of Sodium Tripolyphosphate and
Pyrophosphate, by I. L. Gofman, M. V. Igkov.

RUSSIAN, per, Khim Prom, No 9, 1961, pp 620-624.

ILL RPS 2134
(loan)

Sci - Chem
Jul 63

238,123

Gol'dberg, N. A. and Kucheryavyl, V. I.
CHEMISORPTION PROCESS MODELS [Modelirovanie
Khemosorptsionnykh Protessov]. Apr 62, 6p. 10 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 9 [p. 630-636].

DESCRIPTORS: *Chemical engineering, *Chemisorp-
tion, Models (Simulations), Towers (Chemistry), Hy-
drodynamics, Mass transfer.

(Chemistry--Physical, TT, v. 9, no. 5)

62-34328

I. Gol'dberg, N. A.
II. Kucheryavyl, V. I.
III. International Chemical
Engineering, New York

Office of Technical Services

Ivanov, M. E.
THE CALCULATION OF VAPOR CONDENSATION
FROM A VAPOR-GAS MIXTURE [Raschet Protsessa
Kondensatsii para iz Piro-Gazovoi Smesi]. Apr 62, 8p.
12 refs.

Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR) 1961,
no. 9 [p. 644-650].

DESCRIPTORS: *Chemical engineering, *Vapors, Gases,
Mixtures, *Condensation, Fog, Towers (Chemistry),
Mass transfer, Heat transfer.

(Chemistry--Physical, IT, v. 9, no. 5)

62-34341

I. Ivanov, M. E.
II. International Chemical
Engineering, New York

CFSTI 11 65-60349

Office of Technical Services

62-18758

Vol'fon, L. G. and Kogan, L. M.
CHLORINE-CONTAINING INSECTICIDES PREPARED
FROM HEXACHLOROCYCLOPENTADIENE. [1962]
20p. 64 refs.
Order from OTS or SLA \$1.60 62-18758

I. Vol'fon, L. G.
II. Kogan, L. M.

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961, no. 10 [p. 672-677].
An abstract trans. is available from OTS or SLA
\$1.10 as 62-15416, AID 61-160, 30 Nov 61, 1p.

DESCRIPTORS: *Insecticides, Chlorine, Chlorination.

(Agriculture--Plant Cultivation, TT, v. 9, no. 8)

Office of Technical Services